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UNIVERSITY OF ALBERTA

folio

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<http://www.ualberta.ca/folio>

U of A earns solid research support

NSERC awards nearly 200 grants worth \$9 million

By Richard Cairney and Stephen Osadetz

University of Alberta researchers have been awarded more than \$9 million in funding in the Natural Sciences and Engineering Research Council of Canada's (NSERC) newest round of funding grants.

The 188 U of A researchers supported by the new grants are involved in a vast scope of research activities, from basic research projects in subatomic physics to the study of hazardous materials transportation routes.

Dr. Wolfgang Jäger, a professor of chemistry, earned one of the most prestigious awards, a Steacie Memorial Fellowship. Such awards are rare, but the U of A, with seven fellowships in the last six years, has more than any other Canadian university. The money, Jäger says, will allow him to undertake a new experiment in which minute droplets of helium are used as a matrix to stabilize unstable molecular structures for study.

In a broader scope, Jäger studies intermolecular interactions, trying to understand how bulk materials gain their properties from single molecules that don't share these characteristics. "We want to find a bridge between the microscopic world of atoms and molecules and the macroscopic world of bulk-phase matter . . . between a single water molecule, [for instance], and a glass of water. We're looking at how molecules talk to each other, in a sense."

Dr. James Pinfold earned a total of \$460,000 in the funding announcement. He said the NSERC funding will help complete research already underway and will help fund exciting new work. A renowned physics professor and director of the U of A's Centre for Subatomic Research, Pinfold's excitement grows as he discusses the Atlas project. That experiment will be staged in five years' time when a new particle accelerator, the Large Hadron Collider, is completed at CERN, in Switzerland.

"We plan to recreate conditions that only ever existed immediately following the Big Bang—when the universe meas-



Dr. Wolfgang Jäger has earned a prestigious Steacie Fellowship.

ured centimetres across," he said.

Funding for the work is in addition to existing federal support for the Swiss facility. "Canada is punching well above its weight on this," he said. "We are very heavily involved."

Another professor and grant recipient, Dr. Jacques Carriere of the Department of Mathematical and Statistical Sciences, develops models that describe aspects of a fundamentally chaotic system—financial markets. "Many of the things I study are of importance to the insurance industry, which is why I chose them." With the NSERC grant, Carriere can fund a doctoral student, continuing with his research as he supports another's education.

"Part of my research is that I argue there is no way you can take all of this past information (from the markets) and make any predictions that will make you any money on what the price of stocks and bonds are," he said.

Physics professor Sharon Morsink

said funding from NSERC is essential. It allows researchers to concentrate on their work and, in turn, gives graduate students valuable experience.

Morsink has been awarded funding support for four years to study the relativistic astrophysics of neutron stars.

Some types of large stars turn into neutron stars after they "die" in a supernova explosion. The stars collapse on themselves but do not form black holes. The gravitational pull, however, is tremendous.

"The matter is packed as tightly at the centre of these stars as protons and neutrons are in the nucleus of an atom—maybe more," said Morsink. Using data from satellite observatories that measure X-rays emitted from neutron stars, Morsink searches for ways to identify characteristics of Einstein's theory of gravity, which applies to the strong gravity environments of neutron stars; and she tries to understand how that potent gravity causes matter, such as large "oceans"

of gas found on the surface of some neutron stars, to behave.

"By studying these stars we can try to understand what happens to very dense nuclear matter. You can find out something about how matter works under those conditions."

NSERC is one of the largest supporters of science and engineering research on the U of A campus.

U of A President Dr. Rod Fraser said the NSERC funding announcement is indicative of the "exceptional quality of the research" currently occurring at the University of Alberta. "The federal government is to be commended for its commitment to research and development and for recognizing its importance to the future of all Albertans and Canadians," he said.

In sum, the NSERC funding will inject 2,900 new research grants, almost \$361 million, into 62 post-secondary institutions across Canada over the next five years. ■

"We want to find a bridge between the microscopic world of atoms and molecules and the macroscopic world of bulk-phase matter . . . between a single water molecule, and a glass of water. We're looking at how molecules talk to each other, in a sense."

— Dr. Wolfgang Jäger

Corporate Challenge team closing in on first

Participation up as fight for gold intensifies

By Richard Cairney

The University of Alberta's Corporate Challenge team is, as its motto says, kickin' butt and takin' names. Halfway into the two-week event, the U of A's teams had earned one gold medal, held a firm grip on second place overall and was closing in on first.

The U of A's badminton team repeated last year's performance to produce the university's first gold medals of the city-wide event. Team captain Leonard Wampler, an electronics technician at the Centre for Subatomic Research, said the university handily beat the Edmonton Police Service for the gold. But the most difficult match came against Epcor, he said.

"That was the real gold medal game, and we told them so afterwards," Wampler said. "They had us beat three

straight, which is the first time anyone has done that to our men's team."

The U of A was down but not out. The women's team roared back to qualify for the finals. "Epcor only needed one win to put us into the bronze medal round and then into the gold. Our women's team knew what they needed to do and they came through."

Other U of A teams were also faring well. The U of A earned points in pool and triathlon for the first time and the mountain bike team earned a bronze medal, with gold going to Epcor. The city-owned utility is providing stiff competition for the U of A.

John Younk, chair of the U of A Corporate Challenge committee, said he was confident university teams would win first place overall after taking second for the past two years.

"We're in second place behind Epcor—they're really going after it," said Younk. "It's funny because the team to beat has been either Telus or the Edmonton Police Service. We lost out to the police two years ago and Telus last year, by about three points I think, and now it seems to be Epcor that's going strong," said Younk, manager of the OneCard office.

"We finished second the last two years. We'd like to have that trophy back, but the others would be nice to have too—either first or third."

University participation in the Corporate Challenge has increased significantly this year, Younk added, with competitors and volunteers numbering about



U of A mountain bike team member Sam Sanford-Blades (left) overtakes yet another opponent while university mascot Patches enthusiastically cheers him on. The team took third place. Corporate Challenge events continue until the closing ceremonies June 8.

140, up from approximately 100 last year.

The Corporate Challenge comes to a close June 8 with a barbecue and closing ceremonies at the Norwesters Rugby Park (southwest of the Alberta Research Council, on 96 St. and 20 Ave.) at 5 p.m.

"We'll be there as a team, and it's a family event. The more the merrier," said

Younk. Ever confident, he added: "we'll cook up some burgers and pick up our trophies shortly after that."

In the meantime, plenty of events are underway, many of them on campus. A full schedule is available at the U of A's Corporate Challenge Web site: www.ualberta.ca/challenge. ■

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Two new deans face new challenges

Retiring professoriate, differential tuitions on agendas

By Richard Cairney and Stephen Osadetz

In a move that could mean dramatic changes for the University of Alberta, two new deans were appointed recently by the Board of Governors: Dr. Daniel Woolf to the Faculty of Arts and Professor David Percy to the Faculty of Law.

Woolf, a specialist in early modern British cultural history, comes to the U of A from McMaster University, where he was dean of the Faculty of Humanities and a professor of history. Percy joined the U of A Faculty of Law in 1969 with the intention of sticking around "for a couple of years." More than three decades later, he's still here.

"I came here for two years and I feel in many ways as though I've just arrived," said Percy, an internationally respected academic who specializes in water law. Percy becomes the tenth Dean at the Law School, established in 1928 as the first Law Faculty in the West.

Advantages to being selected from within the faculty, he said, include a familiarity with the province, the university, the faculty and students. Percy is known for his dedication to the latter two as much as he is for his academic record.

For his teaching and research—in the fields of contract law, construction law, and natural resources law—he has won awards and academic honours. In 1995, he received the W.P.M. Kennedy Award for outstanding merit as a law teacher in Canada and, in 1996, was a recipient of a U of A Rutherford Award for Excellence in Undergraduate Teaching.

"Frankly, I enjoy watching them advance," he said of his students. "I count myself as having a lot of friends among former students. Sometimes, the greatest pleasure can be helping a student who has been struggling."

Percy, who will teach two classes as Dean, says he heads up a faculty of strong teachers.

"One of the reasons we've had such success is that we've worked on teaching

as a group," he said. "If one of them has a problem they'll come and talk to me about it, and I'm confident they'll continue to do that."

Percy's appointment was welcome news to Ken Nielsen, president of the Law Society of Alberta. A former student of Percy's, Nielsen says the new dean is highly regarded in the legal community. "He's got both the academic background as well as being involved from a practicing basis. He has consulted a significant amount and he is very highly regarded," said Nielsen. "He's a strong administrator."

Percy will employ those skills to meet urgent challenges the Faculty needs to take on. Law schools across the country are dramatically hiking tuition fees and Percy feels the U of A needs to do the same.

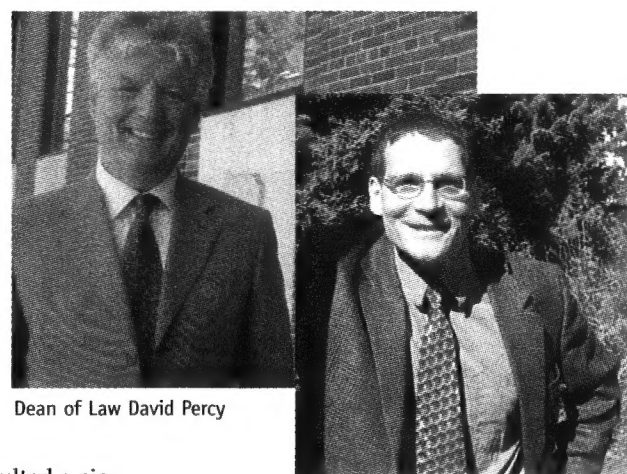
"I feel we have no choice but to move to differential fees," he said. The move, he noted, would allow the faculty to expand, rather than cut back according to current plans.

The faculty has enjoyed a string of successes recently, with students on moot court teams placing strongly in national and international competitions and the school placing in the top three of an annual survey conducted by Canadian Lawyer magazine. These successes come in spite of having half the number of faculty as the University of Toronto's Faculty of Law, with just as many students.

"We are definitely regarded as being in a small elite of Canadian law schools. We need to expand or inevitably slide back into the pack," he said.

"We have a strong base to build on, which is excellent. But we can't afford to fall behind."

For his part, Woolf foresees major changes to the Faculty of Arts, as the



Dean of Law David Percy

Dean of Arts Daniel Woolf

cohort of older professors continues to retire. This problem, Woolf says, poses both challenges and opportunities. The difficulty will be to rejuvenate the faculty's professoriate. "We will have to compete with areas like industry to attract new professors, because Arts qualifications are highly valued."

However, there are definite benefits that come with a changing faculty. "We can also take this opportunity to identify areas of excellence and carve out new directions," he said. "We will not jettison tradition, but we have to continue to examine whether we are best serving the needs of students and the public, and (we must) align resources with where we want to go."

One of his goals, then, is to reinvigorate the public perception of the faculty. "This is a good time for the Faculty of Arts. Arts degrees are making a comeback. The old anecdote about cab drivers with PhDs is pure fantasy—the hard data just doesn't support it."

Woolf is replacing Dr. Ken Norrie, who was appointed Vice-President (Academic) at McMaster University last year; Professor Percy takes over from Professor Lewis Klar, who is returning to a teaching and research position within the Faculty of Law. ■

Raising the bar

Globalization will improve life for the world's poor

By Jacqueline Janelle

"I always start from the proposition that politicians are also well-meaning people," said Dr. Rolf Mirus, a professor of Economics at the University of Alberta School of Business. He isn't concerned when he hears the G8 leaders will hold their discussions on the structure and the future of the global economy behind closed doors when they meet at Kananaskis next month.

Where some see the secrecy of the meetings as sinister, Mirus sees necessity. "In our (federal and provincial) cabinets we discuss things behind closed doors. You don't talk openly in front of a football stadium, you don't get anything done that way. This is no different from any other diplomacy where you discuss possibilities in confidence," he said. Each leader still has to answer to his or her legislature, electorate and free press, Mirus says.

And there's necessity too, adds Mirus, in the existence of an organization like the G8, to set policy in our increasingly interdependent world: one in which issues of justice, immigration and finance observe no borders.

"The G8 helps give direction to what would otherwise be a rudderless ship," said political science professor Andrew Knight. "You need to have a body to do this." He concedes, though, that whether the G8 is the right body is another question.

A global coffee klatch already exists, of course, but Mirus says that the United Nations is too large to be effective. Knight agrees, saying that the body is heavily

politicized and perhaps too heavily influenced by developing nations. "Most of the work of the global political economy is done outside of the UN."

But Knight also sees the G8 as just one step in an evolutionary process. A recent meeting of the Centre for Global Studies attended by Knight concluded that the present system is "simply too narrow a political body to deal with the complexities of the global economy." Knight foresees a day when the G8 will be replaced by the G20.

The benefits of globalization are jobs and opportunities, says Mirus. He notes that it's particularly important for Canada to be involved in guiding the globalization of trade: more than 40 per cent of our Gross Domestic Product, the total value of good and services produced here, is exported. "Globalization on the economic front has been very beneficial to Canadians," he said. "It has increased the income level, job opportunities, and standard of living."

Increasing globalization may mean we need to compete a little harder, he concedes, but the result is healthy for everyone. "Like all economic growth there are side effects from globalization that are well known. People have to compete indirectly with workers in other countries. It creates this kind of friction. It prevents cozy domestic monopolies—arrangements that benefit a few. So it's a good thing for people who have aspirations."

And with global agreement, action can

be taken on pressing issues, whether they are combating terrorism or fighting poverty. "We can provide debt relief if the group of eight gets together and agrees," said Mirus. Developing nations "need access to international capital and international capital does not go where the politics are poor and the risks are high. These are issues that are supranational."

There is great potential for change lurking within international summits such as the G8, says Knight. "We have started to think of the rest of humanity and realize that we are part of one humanity. We could use the engine of globalization to improve the economic lot of others. That should be a real plus of globalization."

In fact, says Mirus, if anti-G8 protesters really had the interests of the disadvantaged at heart, they'd support the dismantling of barriers to trade. "If you care for people in general you've got to be pro. But if you say Canadians are better than Mexicans or Chinese then you say, 'I'm anti-global because I want Canadians to have a good life and all these others I want them to starve,' and that's what these people forget."■

Good intentions and bad judgement

Don't count on compassion when there's money to be made

By Jacqueline Janelle

Globalization isn't necessarily a bad thing, says Ricardo Acuña.

"But the way it's happening is," he warns.

The upcoming meeting of the G8 exemplifies potential gone wrong, says the executive director of the Parkland Institute, a University of Alberta public policy think tank. Acuña is certainly in favour of our elected leaders working together on common concerns, and a meeting of the most economically powerful nations is a good venue to discuss such issues as eliminating the debt of developing countries, improving social policy, and balancing human rights with economic rights, he says.

But the closed doors surrounding the G8 summit worry him. "If, indeed, these people are working for the betterment of these peoples' lives, then why the need for secrecy?"

That privacy is necessary, he says, because governments no longer represent all of the people who elect them. "Economic systems were put in place to serve the basic needs of people. We've turned it around now so what drives economic systems is the needs of corporations, not the needs of the people. We've got that backwards somehow."

The work of the World Trade Organization shows how—in the name of globalization—corporations are empowered at the expense of citizens, says U of A Students' Union President Mike Hudema.

"We have governments that are usurping the Canadian Constitution by signing international trade agreements which basically bind us for years, and even if they violate our own charter, we can't get out of them without massive sanctions."

And when worthwhile issues are included in the summit agenda, Acuña says, the wrong elements are emphasized. Terrorism has leapt into the foreground, for example, but as a threat to the global commerce rather than as a problem with its roots in economic disparity, he says. "If there is concern about terrorism, the first concern should be people and their well-being, and a balance should be struck between people's rights . . . in democratic societies and people's safety."

Instead, he says, "anti-terrorist-speak" is being used "to de-legitimize people's rights to stand up and speak out against something they are unhappy about."

Hudema also wonders whose interests will be served by having Africa on the agenda. "It usually means using international organizations like the World Bank and the International Monetary Fund to privatize the industries of a selected country, usually switching from a sustenance to a cash crop. I don't think it is in anybody's best interest or aiding development in the long term."

Acuña believes that Africa deserves attention, but laments the fact that African civil society and academic institutions have been left out of the loop. "How can

we say that we are interested in providing a solution that is workable for Africa when we're not giving Africans a chance to have input?" Bring development issues before the United Nations, he suggests, where all concerned nations have a say.

But the summit is actually organized to insulate world leaders from the world's citizens and the voices of dissent, says Acuña. "Political leaders are supposed to represent the people and everything is being done to limit the people being able to express those interests to the leaders in those forums."

Opponents of globalization are dismissed as violent protestors who offer no alternatives, but that's because "the media and the public eye tends to focus on the actual act of the protest and not the content of it," said Acuña.

Hudema plans to participate in the G6b. The 'b' stands for billion and the parallel summit is "for everyone who has not been invited to the G8" and will focus on alternatives to G8 initiatives. And the Parkland Institute is sponsoring the G8 travelling road show, a province-wide series of information sessions about the summit.

"I think we need to put the issues in people's hands because then you get a chain reaction of accountability happening," said Acuña. "If people get angry enough they will start that process of protest going up the political lines. We have to work it from the ground up."■



»» quick »» facts

This year's G8 summit will be held in Kananaskis, Alberta, from June 26-27.

- Three major topics for this year's summit:
- strengthening global economic growth
- economic development in Africa
- terrorism
- This is the fourth summit hosted by Canada:
 - Ottawa-Montebello (1981)
 - Toronto (1988)
 - Halifax (1995)
 - Kananaskis (2002)
- Prime Minister Jean Chrétien will be the longest serving G8 Leader at this year's summit.
- 1975 - First G6 Summit held in Rambouillet, France. France, Germany, Italy, Japan, the UK and the USA participate.
- 1976 - Canada is invited to join summit. The G7 is hosted by USA, in Puerto Rico.
- 1997 - Russia becomes a member of the G8.
- The European Union also participates and is represented by the President of the European Commission (Romano Prodi) and by the leader of the country that holds the presidency of the European Council at the time of the G8 Summit (the president of Spain Jose Maria Aznar).
- The chair rotates between members on an annual basis, with the exception of Russia; next year France will host the Summit.

FURTHER READING

The following Web resources will provide further information on the upcoming G8 summit:

The federal government's G8 Web site:

<http://www.g8.gc.ca/>
The Parkland Institute Web site:
<http://www.ualberta.ca/~parkland/>

The UN Action Against Terrorism Web site:

<http://www.un.org/terrorism>
The World Bank Web site:
<http://www.worldbank.org>
The European Union Web site:
<http://www.europa.eu.int/>
The G8 Activism Web site:
<http://g8.activist.ca/>

The Kananaskis G8 Network Web site:
<http://www.kananaskisg8.net/>

New mining centre opens

Artificial intelligence turns researchers into miners

By Stephen Osadetz



CIMS director Dr. Hong Zhang says the centre brings mining to the university.

The Centre for Intelligent Mining Systems (CIMS) has officially opened, allowing researchers on the University of Alberta campus to use sophisticated sensors to study real-time data from an oil sands mine in Fort McMurray. A product of collaboration between the University of Alberta and the oil sands company Syncrude, the facility is located in the university's new computer science building.

CIMS represents a dramatic change in the mining industry. No longer do miners work long, exhausting days, their faces and hands smeared black. Now the blurred definition of a miner can include researchers like U of A computer scientist Dr. Hong Zhang, director of CIMS. At the opening ceremony, Zhang spoke and led a tour of the facility.

"From my point of view, it's as though we're bringing the mine onto the university campus," he said. "With digital cameras, laser range finders, and stereo vision devices, we can acquire information about ore size and mining equipment (at the oil sands)."

Researchers at CIMS see three challenges to overcome in the oil sands mining industry. For one, oversized ore, usually rejected from the refinement process, must be found and crushed. Also, huge lumps of frozen oil sand must be removed from a conveyor belt before they reach and jam the crusher. Finally, loose metal pieces such as broken shovel teeth could seize up

the crusher and must also be removed, at a high cost in repairs and lost production.

Left unaddressed, each of these problems could cost tens or hundreds of thousands of dollars per day. If, for instance, an enormous chunk of frozen oil sand (some are as large as small buses) were to become stuck in the crusher, it would cost Syncrude \$150,000 for each hour that the crusher was jammed.

Zhang hopes CIMS will prevent problems such as these from occurring. Employees can use computerized equipment (part of which is called DirtTV—a live video feed from the Syncrude mine) to monitor the conveyor belts and stop the process before a jam occurs.

The science gets really interesting when the artificial intelligence aspect of the project is taken into account. This was explained by Dr. Randy Goebel, chair of the U of A's department of computer science.

"We can teach a computer to learn to recognize lost shovel teeth (or other things that might jam the crusher) to reduce damage and lost production time. We're not teaching the computer by programming it to find teeth and remove them—we're programming it to learn what those teeth look like so that it can be more efficient than a human being at solving a problem." ■

Innovation rewarded

Petro Canada awards reward innovative research

By Stephen Osadetz

As a young professor at a big research institution like the University of Alberta, it can be difficult to develop the new ideas that would put one on par with more established, experienced professors.

However, three U of A researchers, Dr. Al Meldrum, Dr. Greg Goss, and Dr. Daniel Kwok, have achieved this difficult feat and have been named winners of the 2002 Petro-Canada Young Innovator Awards. The awards are meant to help promising young researchers turn their innovative ideas into meaningful discoveries.

"When I first heard I had won (the award), I told some of my colleagues," said Goss, a biological sciences professor. "Their response was, 'But you work on fish!' Well, that's true, but what they don't realize is the importance of environmental monitoring."

Goss is building an artificial fish gill, with which he can test for water toxicity without having to kill fish each time a test is done.

Meldrum, a physics professor, conducts

fundamental research in one of the U of A's hottest fields—nanotechnology.

Specifically, he is developing new nanoscale materials that have novel optical and magnetic properties. Translated into simpler terms, when materials such as silicon are formed as discrete particles, rather than as conglomerates of particles, their physical and electrical properties differ significantly from what we would normally expect. "We can actually get the (nanocrystals of silicon) to emit light," he said.

Kwok, a professor of mechanical engineering, is also interested in nanotechnology, albeit in an entirely different part of the field: microlayers and microdroplets. A Canada Research Chair holder, Kwok looks at how tiny drops of fluid can automatically move along specially patterned chemical surfaces.

As Kwok has made good progress in moving the droplets, he hopes to come to a deeper understanding of how this phenomena works, one day using it to separate oil and water in a similar manner. ■

talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>

APR 01 - OCT 31 2002

Standard First Aid/Heartsaver Courses.

The Office of Environmental Health and Safety has arranged for Standard First Aid/Heartsaver courses to be held on campus once again this year. The training is comprised of two full-day sessions (8:00 a.m. to 4:00 p.m.) with morning, lunch and afternoon breaks. The cost is \$80.00 per person. The first course will be held in early April and the last at the end of October. Registration is limited due to classroom size. For further information and registration forms please call Cindy Ferris at 492-1810 or e-mail cindy.ferris@ualberta.ca or visit the home page at <http://www.ehs.ualberta.ca/training.htm#CPR>

MAY 28 - JUN 16 2002

Testing the Depths Event sponsored by Department of Art and Design. Testing the Depths is a Senior Printmaking Exhibition for 2002. The Opening Reception will be held at the Fine Arts Building Gallery on Thursday, May 30, 2002 from 7 p.m. to 10 p.m. Gallery hours are Tuesday to Friday, 10 a.m. to 5 p.m., and Sunday 2 p.m. to 5 p.m. The Gallery is closed Mondays, Saturdays, and Statutory Holidays. Location: Rm. 1-1 Fine Arts Building Gallery, U of A campus, 112 Street and 89 Avenue.

MAY 27 - JUN 26 2002

Extension Centre Gallery Event sponsored by Faculty of Extension. Memory/Suite II, an exhibition of new paintings and drawings by Brenda G. Malkinson. Gallery Hours: Monday to Friday, 8 a.m. to 4:00 p.m. Info: 492-3034. Location: Extension Centre Gallery, University Extension Centre, 2nd Floor, 8303 - 112 Street, Edmonton.

MAY 28 - JUN 16 2002

Recent Paintings: Robert Nichols Event sponsored by the Department of Art and Design. Recent Paintings by Robert Nichols is the final visual presentation for the degree of Master of Fine Arts in Painting. The opening reception for this exhibition will be held at the Fine Arts Building Gallery on Thursday, May 30, 2002. Gallery Hours are Tuesday to Friday: 10 a.m. to 5 p.m. Sunday: 2 p.m. to 5 p.m. The Gallery is closed on Mondays, Saturdays, and Statutory Holidays. Location: Rm. 1-1, Fine Arts Building Gallery, U of A campus, 112 Street and 89 Avenue.

MAY 15 - DEC 31 2002

Speakers' Bureau Academic Technologies for Learning presents the Speakers' Bureau, a series of free sessions on a variety of topics dedicated to advancing the pedagogy of educational technologies at the University of Alberta. Available to faculty members, sessional instructors, and graduate students, we will bring these sessions to the location and time that

are convenient for you. For a full listing of sessions, visit the ATL Web site at <http://www.atl.ualberta.ca/>. Speakers' Bureau brochures are available upon request. If these sessions don't meet your needs, we are also interested in your ideas for other topics and will be pleased to discuss tailoring sessions to meet your particular needs. Contact Cheryl Whitelaw at cheryl.whitelaw@ualberta.ca for more information or to set up a session and at a location near you.

MAY 31 2002

Cloning Dolly: implications and applications Professor Keith Campbell (one of the creators of Dolly) of the University of Nottingham will present this lecture from 5 to 6 p.m. at the Telus Centre.

MAY 31 2002

Department of Cell Biology Ph.D. Thesis Defense. Event sponsored by Department of Cell Biology. James B. McCabe will speak on: "Fat up front: The role of N-terminal acylation in signaling protein subcellular localization." Room 5-10 Medical Sciences Building. From 12:00 p.m. to 1:00 p.m.

MAY 31 2002

Department of Physiology Elaine Sims, Graduate Student, Dept. of Physiology, U of A, will present "Volume regulation in pregnancy: hormonal modulation of the atrial receptor reflex." 3:00 p.m. 207 Heritage Medical Research Centre.

JUN 03 2002

Department of Biological Sciences Departmental Seminar. Dr. Michael Murphy, Department of Microbiology and Immunology, University of British Columbia, will present: "Nitrite Reduction to NO by Pathogens and Soil Bacteria." Hosted by Dr. Julia Foght. 11:00 a.m. Location: ES 327 Earth Sciences Building.

JUN 04 2002

Lunch and Learn Presentation Event sponsored by Health Promotion & WorkLife Services. Communication in Family Life (Part 2 of 3). Part 2 – Communication with our Children. From 12:00 p.m. to 1:00 p.m. Presenter: Peter Rajski, Wilson Banwell & Associates. Parent-child communication is at the heart of teaching future adults effective ways to communicate with others. Children learn attitudes, values, and behaviors, as well as gain knowledge, through communicating with others - the most important of whom are their parents. Communication between parent and child begins the day the child is born, or earlier, and continues as the child grows, matures and changes. Part 2 of this lunch & learn series will deal with changes necessary for effective communication between parents and their children. Location: Heritage Lounge, Athabasca Hall.

JUN 05 2002

Department of Rural Economy Symposium 2002 - Structural Change in the Agribusiness Sector. Participants will examine structural change from the farm to the retail food shelf and all areas in between. From 8:30 a.m. to 5:00 p.m. Location: Room N2-115 Education Building.

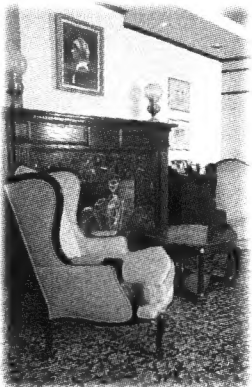
JUN 06 2002

Soirée Opéra (Evening of Opera songs) Event sponsored by Faculté Saint-Jean. Soirée Opéra (Evening of Opera songs). 7:00 p.m. Theme: The life of the Opera singer Emma Lajeunesse (1847-1930) (known Albani). Invited guest singers: Catherine Kubash and Mireille Rijavec, accompanied by the well-known piano and organ player, Jeremy Spurgeon. Free admission. For more information please call Claude Couture, (780) 465-8758. Location: Grand Salon, Centre Saint-Jean, 8406 - 91 Street.

JUN 07 - 08 2002

Kurimoto Japanese Garden Spring Festival The Consulate General of Japan in Edmonton and the Devonian Botanic Garden are pleased to present a unique opportunity to celebrate Japanese culture in all its entire splendor! Opening ceremonies will commence at 12:45 at Centre Stage in the Kurimoto Japanese Garden. The festival will include Taiko drumming, Ken jujitsu and demonstrations on origami, Taiko, tea ceremonies, bonsai, Chigir-e, ikebana, and much, much more! Japanese food will also be available. Regular admission rates apply. Contact Visitor Services, Devonian Botanic Garden, (780) 987-3054 for further information. From 12:00 to 5:00 p.m.

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JUN 07 - 09 2002

Chigiri-e Chigiri-e is the Japanese art of tearing tiny pieces of paper and making a picture that looks like an oil or pastel painting. On-going demonstrations are in the Crafters work area (downstairs) of the main building. Regular admission rates apply. Contact Visitor Services, Devonian Botanic Garden, at (780) 987-3054 for further information. From 10:00 a.m. to 5:00 p.m.

JUN 10 2002

Department of Cell Biology Event sponsored by AHFMR and the Department of Cell Biology. Guest Speaker Dr. David Y. Thomas, Professor and Chair, Department of Biochemistry, McGill University, will present "Protein Interactions in the Endoplasmic Reticulum." From 9:30 to 10:30 a.m. 5-10 Medical Sciences Building.

JUN 10 2002

Department of Physiology Dr. Pa-Thai Yenichsomanus, Mahidol University, Bangkok, Thailand, will present "Distal renal tubular acidosis and defects of anion exchanger 1." 2:00 p.m. 207 Heritage Medical Research Centre.

JUN 11 2002

Centre for Research for Teacher Education and Development Seminar. Joe Norris, Secondary Education, will present "The Things That Haunt Me: Revisioning Teacher Education." From 12:30 to 2:00 p.m. 633 Education South.

JUN 11 2002

Department of Cell Biology PhD Thesis Defense. Mr. Cleofe Hurtado will present "Dimorphism in the yeast *Yarrowia lipolytica*: a model for eukaryotic cell morphogenesis." 5-10 Medical Sciences Building. From 9:30 to 10:30 a.m.

JUN 12 2002

Career and Placement Services (CaPS) Workshop for Grad Students: Writing an Effective CV & Cover Letter. Pre-register today at CaPS, 2-100 SUB and receive a voucher for a FREE consultation with the Graduate Student Career Advisor. For more information contact: 492-4291 or janis.shaw@ualberta.ca. Location: CaPS Classroom; Rm 4-02 Students' Union Building.

JUN 12 2002

Lunch and Learn Presentation Event sponsored by Health Promotion & WorkLife Services. Money Management. Presenter: Gord Williams and Jak Pullen, Clarica. From 12:00 p.m. to 1:00 p.m. Are you maximizing the potential of every hard earned dollar? To find out how to make the most of your income, plan to attend this session on money management! This presentation will cover: getting organized with your money, why you should budget and how, credit cards – which ones to have and how to make the most of them, and how to manage your bank account. You will also receive some money saving tips and ideas! At no cost to you, Gord and Jak will also be available for one-on-one consulting. Instructions on how to request a one-on-one consult will be available at the seminar. Location: Heritage Lounge, Athabasca Hall.

JUN 12 2002

Department of Biological Sciences MSc Thesis Seminar. Dept. of Biological Sciences MSc Thesis Seminar, by Aswea Porter, entitled: "Habitat selection by American marten (*Martes Americana*) at the element, patch and stand scales in a young deciduous forest in northern British Columbia," 9:00 a.m., CW 313 Biological Sciences Centre.

JUN 13 - 15 2002

Canadian Society for Pharmaceutical Sciences New Technologies in Drug Discovery & Drug Development. CSPS 5th Annual Symposium on Pharmaceutical Sciences. Location: The Banff Centre, Alberta, Canada. Website: <http://www.ualberta.ca/~csp/cspconferencesite/home.htm>

JUN 13 - 16 2002

The World's First Carl Czerny Music Festival and International Symposium Event sponsored by University of Alberta Canadian Centre for Austrian and Central European Studies, Manfred & Elisabeth Wirth Endowment, Edmonton Symphony Orchestra, U of A Department of Music, Gesellschaft Der Musikfreunde in Wien, Winspear Centre. The World's First Carl Czerny Music Festival and International Symposium. Festival Director: Anton Kuerti. For Ticket and Concert information, Festival packages \$95 (includes all seven concerts), Single tickets \$15 to \$40, call 1-800-563-5081 or 780-428-1414. For more information please see: <http://www.arts.ualberta.ca/CCAUCES/> Location: Winspear Centre & The University of Alberta Convocation Hall.

JUN 14 2002

Centre for Health Promotion Studies - Research Day 2002 This year's theme is Health Promotion: Shaping Health Reform. The keynote speaker is Dr. David Butler-Jones, Chief Medical Officer, Province of Saskatchewan. For more information please visit our Web site at <http://www.chps.ualberta.ca>. Everyone welcome. Happens at Corbett Hall.

JUN 14 2002

International Institute for Qualitative Methodology Research Methodology Workshop—"A Good Concept Analysis Is Half The Research." This workshop provide a one-day introduction to concept analysis as an empirical method. The supposition of qualitative research in general is, of course, that we cannot do without the voice of the people in the field that we are research. This definite truth seems to hide that a lot of relevant empirical information can be found in ordinary language. The basic suppositions of ordinary language are presented next to an elaborate example of this kind of research. Instructor: Dr. Bas Levering, University of Utrecht. Location: 6-10 University Extension Centre, 8303-112 Street.

JUN 15 2002

Saturday Walk (Trees and Shrubs) Meet at noon at the Shop in the Devonian Botanic Garden and tour the Garden's extensive tree and shrub borders, many of them in full spring colour at the time. Horticulturist Gordon Nielson will be guiding the tour. Call (780) 987-2064 to book for an enjoyable spring walk! 12:00 noon.

Display advertisements: Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-6675 for sizes, rates and other particulars.

2002 REPORT TO THE COMMUNITY

Building on Our Strengths - Investing in Our People

Join us for the second annual report to and Q & A session for our stakeholders. Alumni, students, friends and partners in the community are invited.

Wednesday, June 26, 2002

11:30 a.m. - Report and Q & A Session

12:00 noon - Light Buffet Luncheon

1:00 p.m. - Conclusion

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Please confirm your attendance

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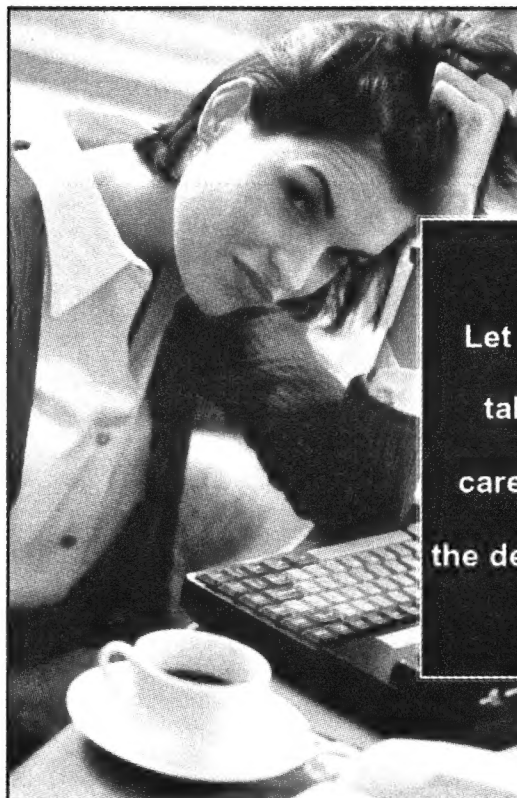
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positions

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UNIVERSITY OF ALBERTA INTERNATIONAL MANAGER, INTERNATIONAL EDUCATION MARKETING

University of Alberta International (UAI) plays a pivotal role in the international activities of the University of Alberta. UAI works with students and faculties in pursuing innovative learning, research and collaborative opportunities which include assisting students in meeting their international goals, building academic partnerships and engaging in programs with industries, governments and funding agencies.

An exciting opportunity exists for a highly motivated and enthusiastic individual to join our team of professionals in the position of manager, international education marketing.

Reporting to the associate vice-president (international) the manager, international education marketing, is responsible for the identification of international markets for the recruitment of students to undergraduate, graduate, English as a Second Language, and other programs of the University of Alberta. The manager will provide support and guidance to key faculties, programs and administrative units that are engaged in international recruitment activities.

Responsibilities include:

Develop, maintain and execute an international marketing strategy for the University of Alberta that is in concert with the university's existing strategies on internationalization.

Consult with faculties and programs to identify programs of interest to international students and examine capacity for additional international students.

Identify international markets for student recruitment and provide market intelligence.

Co-ordinate international recruitment activities and provide logistical support to faculties and administrative units engaged in international recruitment.

Assists faculties and administrative units to share resources and/or collaborate in international student recruitment activities.

Identify new opportunities for international student recruitment.

Applicants must have post-secondary education in marketing supplemented with related practical experience. The successful candidate will require excellent communication skills with the ability to work in cross-cultural settings. Skills in language(s) other than English or French are highly desirable. Strong research, analytical and writing skills are necessary. Computer literacy in word-processing and databases a must. Travel will be required.

This full-time Administrative/Professional Officer position has a salary range of \$39,400 to \$64,400 commensurate with qualifications and experience. Appointment will be for a one-year term with extension subject to performance and funding availability.

Letters of interest, including a résumé and names of three professional references should be submitted no later than June 14, 2002 to Marjorie Cayford, Executive Officer, University of Alberta International, 1204 College Plaza, 8215 – 112 Street, Edmonton, Alberta, T6G 2C8. Fax: 780-492-1488. E-mail: marj.cayford@ualberta.ca. Applicants are thanked in advance for their interest, however only those candidates selected for an interview will be contacted. Interviews will be conducted during the week of June 24, 2002.

HUMAN RESOURCES ADVISOR, JOB DESIGN

The Job Design and Evaluation Unit within the Human Resources portfolio is seeking two energetic, client-oriented individuals to take on one full-time continuing and one term appointment. The unit reports jointly to Academic Staff Administration and Support Staff Human Resources and is responsible for applying an organizational development approach to job design and evaluation for both academic and support staff positions at the University of Alberta.

Successful candidates will work collaboratively with other team members to assist faculties, departments and units in defining value-added and enriching jobs and job systems which enable clients to achieve their strategic goals. Through education and job evaluation, the incumbent will promote the equitable and consistent application of the university's job evaluation plans and undertake projects to continuously improve them.

Ideally the candidates will have a degree in business administration and a combination of course work and experience in the areas of human resources, compensation, organizational design and job design. Demonstrated experience in project management is beneficial. Experience using job evaluation methods such as Hay and Aiken is essential.

The current salary range for both the Administrative and Professional Officer position, and

the term appointment is \$40,255 - \$63,733 per annum.

To learn more about the University of Alberta, please visit our web site at: www.ualberta.ca. Interested candidates are asked to submit their résumés via e-mail to: hrs.recruitment@hrs.ualberta.ca, or through regular mail to the address below, no later than June 7, 2002. Applicants are thanked in advance for their interest, however, only those selected for an interview will be contacted.

Lesley Campbell
Manager, Job Design and Evaluation
2-40 Assiniboia Hall
University of Alberta
Edmonton, Alberta T6G 2E7

HEALTH SCIENCES CO-ORDINATOR HEALTH SCIENCES COUNCIL

(Two Positions)

The Health Sciences Council is a policy and decision-making body responsible for leading interdisciplinary health sciences education, research and community service at the University of Alberta. Accountable to the provost and vice president (academic), the council is comprised of the deans of the six faculties at the U of A which provide professional programs for health sciences professionals.

The Health Sciences Council oversees the operation of five interdisciplinary research centres and a number of projects and initiatives in areas such as interdisciplinary health sciences education, research and community service.

Co-ordinator, Finance, Planning and Administration

You are accountable for a wide range of activities including the efficient financial management of the council, its centres and initiatives, leading the strategic planning process, policy development, space planning, information technology, clinical placement agreements and the Standardized Patient Program. The position oversees legal agreements and works closely with senior staff colleagues located throughout the University to ensure effective management of financial, administrative and planning processes.

Co-ordinator, Human Resources, Research and External Relations

You are responsible for human resource management for the Health Sciences Council, its centres and initiatives, including recruitment, salary administration and performance review processes. The incumbent facilitates the development of interdisciplinary health research initiatives and provides a liaison role with external organizations, including health authorities, government departments and community agencies. The position crafts high-level responses to government reports, policies, legislation and health system developments and manages relationships and legal agreements with external stakeholders.

Both positions work interdependently to provide management support services to assigned research centres and initiatives in areas such as budgeting, planning, human resource management, space planning, information technology and provide liaison with the council and central administration. The health science co-ordinators provide strategic counsel to the executive director and deans on emerging issues related to health sciences education, research and other matters.

The preferred candidates will have a graduate degree in a related discipline with a good understanding of health sciences education and the health care system. Exceptional analytical, policy development, writing and interpersonal communication skills are required. Demonstrated competence working as part of a team and strong project management and time management skills are essential. Candidates are requested to indicate which position they are applying for and will be interviewed for one position only.

These are permanent positions in the Administrative/Professional Officer series with a salary range of \$40,820 - \$64,634 (under review). Interested persons are invited to submit a letter and current résumé by June 7, 2002 to:

Dr. Don Philippon, Executive Director
Health Sciences Council
University of Alberta
300 Campus Tower, 8625-112 Street
Edmonton, AB. T6G 1K8

FACULTY OF EXTENSION MANAGER, EVALUATION RESEARCH

The Faculty of Extension welcomes applications for the position of manager of evaluation research services, Academic Technologies for Learning (ATL). ATL is an academic service unit within the Faculty of Education mandated to support the exemplary and reflective use of learning technologies in the University of Alberta's instructional programs at the undergraduate, graduate, professional, and non-formal levels. ATL's core services include instructional

development, research and evaluation, and faculty development.

Reporting to the director of ATL, the manager of evaluation services will lead a team of individuals that includes full-time temporary staff, trust employees, and a cadre of graduate student interns in developing and maintaining a system of program evaluation on campus. The manager is expected to work closely with faculties and departments, and their partners and associations, to provide advice and assistance in developing an evaluation framework for initiatives exploring alternative and/or innovative approaches to instruction. For example, the evaluation team has worked with individual faculty to design learning impact studies, departments to develop evaluation models and tools, and faculties and collaborative networks across Canada to assess the implementation of new technologies such as broadband applications.

In addition to providing leadership in program evaluation and policy development, the manager will assist and support faculty members and units to develop research proposals, identify partners, and obtain external funding; and will be expected to maintain his/her own related research program. The manager also ensures that the results of evaluation initiatives will be disseminated, in multiple formats, to the university community and beyond. This individual will share research findings at professional meetings and will also serve on internal and external commit-

tees. This position entails faculty professional development work, including the design and delivery of departmental presentations, workshops, institutes, and tutorials, and may include other teaching responsibilities.

The successful candidate will possess, at a minimum, a Master's degree in program evaluation or a related field, and at least five years working with directly with faculty members in a post-secondary context. A PhD and demonstrated success working with diverse methods and models of evaluation are definite assets.

This position has been designated as a Faculty Service Officer (FSO) II, with a salary range of \$45,374 to \$64,238 per annum. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. There is a strong internal candidate. Applications must include a covering letter and the names of three references. Please direct enquiries and applications by June 30, 2002 to:

Dr. Katy Campbell
Acting Director, ATL
Associate Dean, Research
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13 June 2002

7:00 to 9:00 pm

Room 231/237, Law Centre
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An Anglo-Canadian Perspective:

Richard Connors, Visiting Professor, Department of History and Faculty of Law, University of Alberta

An Aboriginal Perspective:

Sákéj Henderson, Research Director, Native Law Centre of Canada, University of Saskatchewan

A French-Canadian Perspective:

Claude Couture, Professor, Faculté Saint-Jean, University of Alberta

Moderator:

Ken Munro, Department of History, Associate Dean, Faculty of Arts, University of Alberta

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letters
to the editor

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Quilters' conference sews up misconceptions

By Stephen Osadetz

It is a familiar image now, though not one you'd expect to find on a quilt. A plane flies into a World Trade Center tower; the other tower is already billowing smoke; below the buildings, a black body is encircled by a wheel of fire. This isn't the kind of quilt that your grandmother would make.

Yet this piece, entitled *Melopomene* after the muse of tragedy, was one of many hanging in the University of Alberta's Butterdome, part of Quilt Canada 2002, the biannual national conference of the Canadian Quilters' Association.

Many styles of quilts, traditional and eccentric, functional and artistic, disturbing and comforting, were exhibited at the conference recently. The U of A hosted courses as well as exhibits across campus. For the quilters, though, the focus of the conference was not the exhibitions, but the quilting workshops being held on campus during the week.

A fundamental attraction to the craft, what draws so many people to it, the conference's publicity co-ordinator said, is quilting's cultural nature. Instead of necessarily being the solitary pursuit that it is traditionally viewed as, quilting, according to Kathy Logan de Chavez, is a social activity. "If you go to a strange city and you're in a quilt store, and you identify yourself as a quilt maker, you're automatically a part of the community," she said. "I'm a speech pathologist by profession, but, frankly, I would rather say I'm a quilter. It says more about me than my occupation. It means I like to create."

But covered by the variegated quilts is another, deeper point of interest which this conference offered. Quilting is a hobby in flux: artistic ambition merges with strict functionality, craftsmanship with imagination, innovation with tradition. While a quilt, at its simplest level, is just two pieces of fabric between which is sewn some insulation, this conference showcased progressive quilts that pushed this definition to its limits.



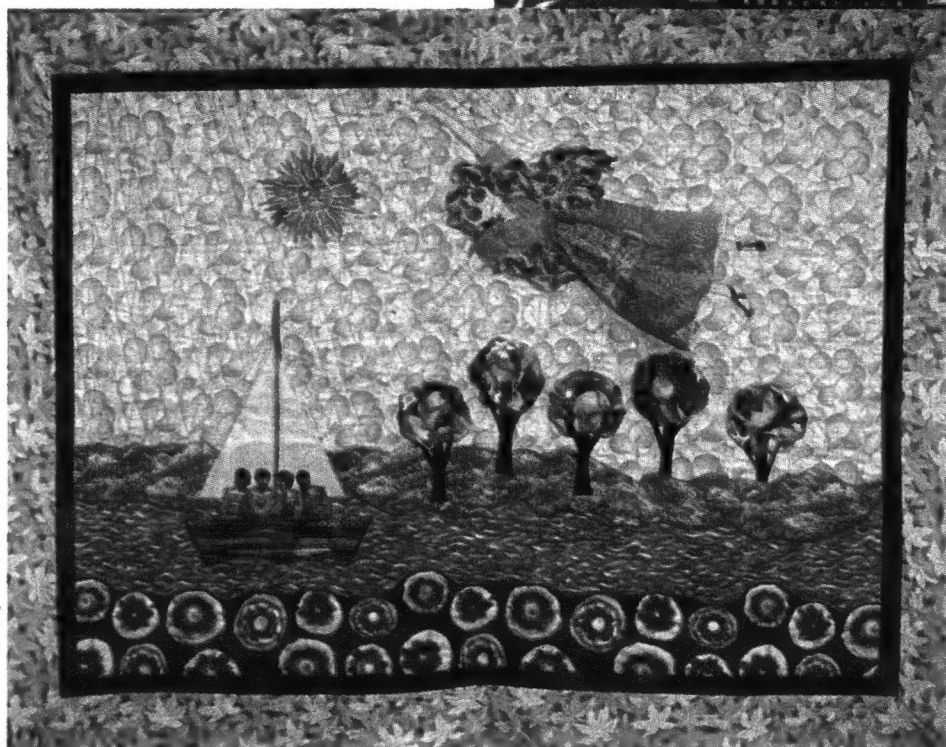
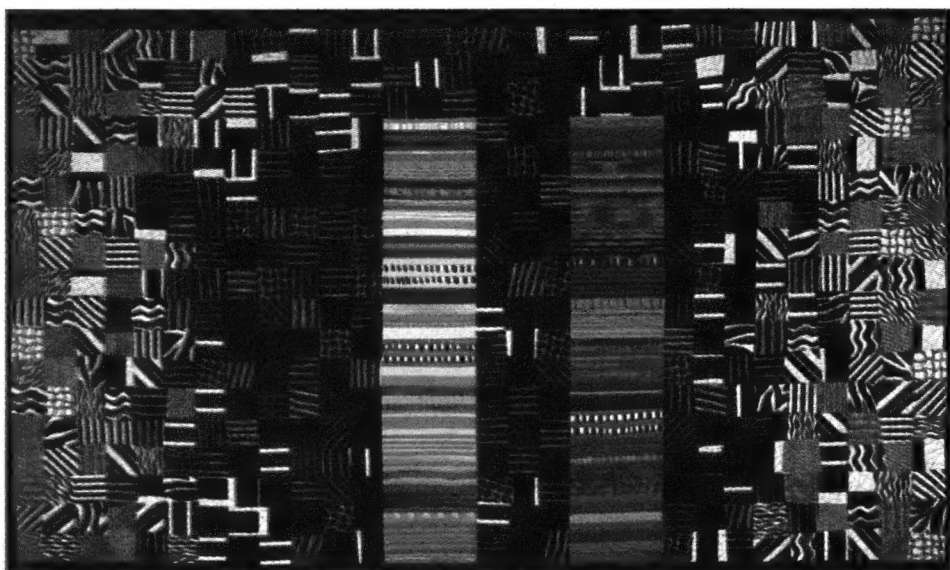
Admittedly, the old guard of quilting still made an impressive showing at the Butterdome's exhibition. The stereotyped old women who painstakingly hand-quilt bed-sized masterpieces of geometric perfection had a number of pieces on exhibit. Some were enormous, requiring weeks of quilting, and on many the hand-stitching is nearly perfect, a point many traditional quilters take deep pride in.

Most pieces, however, represent a new direction for the hobby: "art quilting." These quilts prefer aesthetics to function—many would barely cover a sleeping baby. These pieces combine unconventional materials and approaches to quilting, retaining very little similarity to the blankets made of scraps of clothing that used to define what a quilt was. As Logan de Chavez said: "there's been a real evolution from craft to art."

For instance, a full exhibit, *Inner Visions*, prepared by the Ontario Art Quilt Group, comprised quilts representing body parts and bodily functions. One piece, a burning scarlet pastiche, was entitled *Hot Flashes*. It uses a technique, only half a decade old, called "photo transfer"—a painting of a woman had been scanned onto the fabric.

Melissa Daoust, one of 20 people on the planning committee for the Butterdome's exhibit, says fabric in the hands of a skilled quilter is like paint on a master's brush. Quilting "is a way to express yourself—there's so much texture and feeling involved in it. You may not be able to draw or paint, but you can take fabric and manipulate it into something totally amazing. This is why a lot of people are just discovering this new artistic medium." ■

*A national conference on quilting hosted in part by the U of A put the art in perspective. Clockwise from top: new technology helps create art once painstakingly made by hand; at right, detail from a quilt by the Lethbridge Quilting Guild offers a detailed landscape from Lethbridge to the Rockies, down to the songbirds and leaves on trees; you thought they lived in a yellow submarine, but the Beatles were in a boat on a river with tangerine trees and marmalade skies in the song *Lucy in the Sky With Diamonds* and in Maureen Devich's quilt by the same name (detail at centre, shown in full lower right). A far more sombre subject is presented lower left, in Margie Davidson's 911: A Call for Hope and Healing.*



photos: Chul-Ahn Jeong